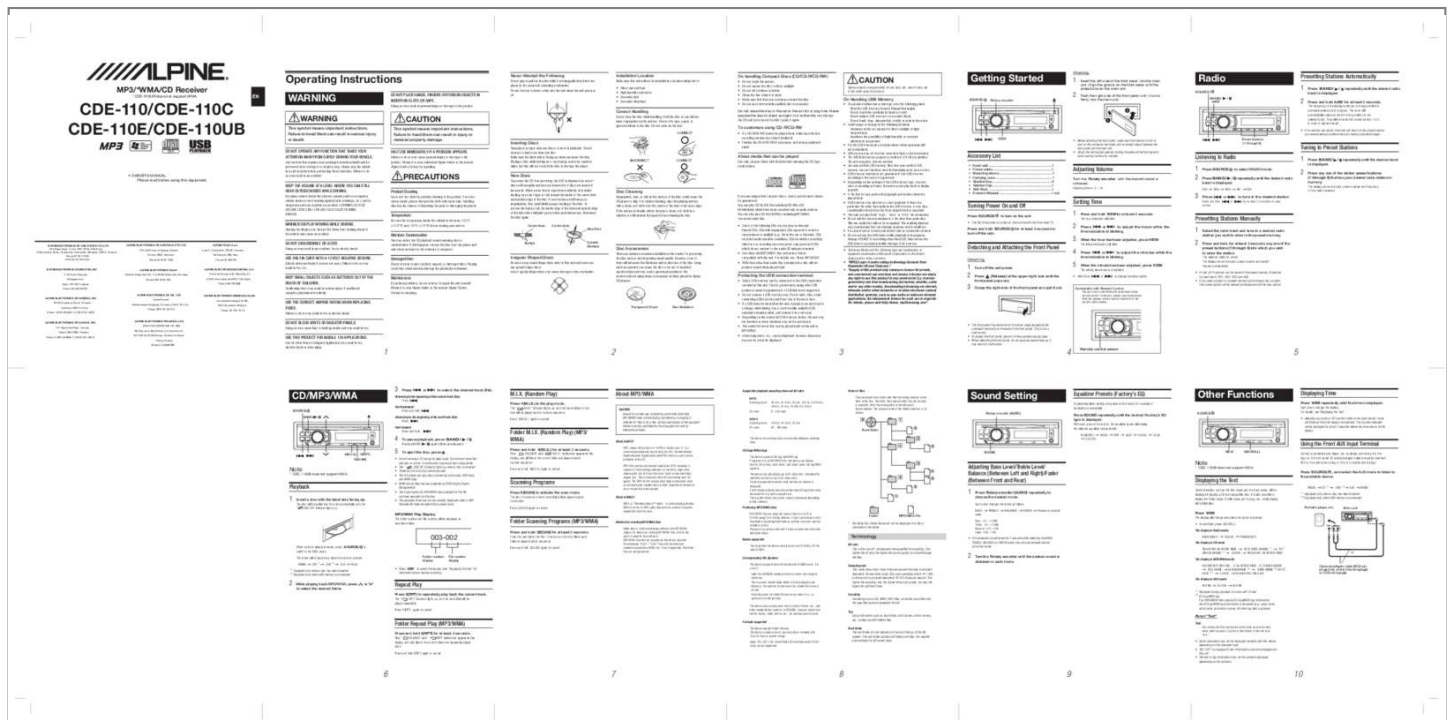




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ALPINE CDE-110UB. You'll find the answers to all your questions on the ALPINE CDE-110UB in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ALPINE CDE-110UB  
User guide ALPINE CDE-110UB  
Operating instructions ALPINE CDE-110UB  
Instructions for use ALPINE CDE-110UB  
Instruction manual ALPINE CDE-110UB



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**Manual abstract:**

Do not affix stickers or labels. Clean the disc when it is dusty. Make sure that there are no bumps around the disc. @@@@Align the groove on the front panel with the projections on the main unit. Push the right side of the front panel until it locks firmly into the main unit. Radio SOURCE/ BAND/ A.ME / Presetting Stations Automatically 1 2 CDE-110/CDE-110C CDE-110E/CDE-110UB • OWNER'S MANUAL Please read before using this equipment. WARNING WARNING This symbol means important instructions. Failure to heed them can result in serious injury or death. DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident. DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS. Doing so may result in personal injury or damage to the product.

Press BAND/ / band is displayed. repeatedly until the desired radio On Handling USB Memory • To prevent malfunction or damage, note the following points.

Read the USB memory Owner's Manual thoroughly. Do not touch the terminals by hand or metal. Do not subject USB memory to excessive shock.

Do not bend, drop, disassemble, modify or soak in the water. • Avoid usage or storage in the following locations: Anywhere in the car exposed to direct sunlight or high temperatures. Anywhere the possibility of high humidity or corrosive substances are present. • Fix the USB memory in a location where driver operation will not be hindered. • USB memory may not function correctly at high or low temperature • The USB flash memory supports a maximum of 4 GB per partition. The unit recognizes only one partition. • Use only certified USB memory. Note that even certified USB memory, may not function correctly depending on its type or state. • USB memory function is not guaranteed. Use USB memory according to the terms of agreement.

• Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display properly. • A file that is copy-protected (copyright protection) cannot be played back. • USB memory may take time to start playback. If there is a particular file other than audio in the USB memory, it may take considerable time before the file is played back or searched. • The unit can play back "mp3", "wma" or "m4a" file extensions. • Do not add the above extensions to a file other than audio data. This non-audio data will not be recognised. The resulting playback may contain noise that can damage speakers and/or amplifiers. • It is recommended to back up important data on a personal computer. • Do not remove the USB device while playback is in progress.

Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory. • Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. • "MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson." • "Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e.

revenuegeneration) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>" Press and hold A.

ME for at least 2 seconds. The frequency on the display continues to change while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored into preset buttons 1 to 6 in order of signal strength. Correct Handling CAUTION This symbol means important instructions. Failure to heed them can result in injury or material property damage. HALT USE IMMEDIATELY IF A PROBLEM APPEARS. Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Centre for repairing. Do not drop the disc while handling.

Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc. CORRECT Do not leave the disc in the car or the unit for a long time. Never expose the disc to direct sunlight. Heat and humidity may damage the CD and you may not be able to play it again. To customers using CD-R/CD-RW • If a CD-R/CD-RW cannot be played back, make sure the last recording session was closed (finalized). • Finalize the CD-R/CD-RW if necessary, and attempt playback again. • If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began. VIEW Inserting Discs Your player accepts only one disc at a time for playback.

Do not attempt to load more than one disc. Make sure the label side is facing up when you insert the disc. Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player. About media that can be played INCORRECT CORRECT Accessory List ••••••

• Head unit ..

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1 Power cable .....

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...1 Mounting sleeve.....

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*1 Carrying case .....*

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*.1 Bracket key.....*

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*.....2 Rubber Cap .....*

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*.....1 Bolt Stud ..*

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*.....1 Owner's Manual .....*

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*.1 set • Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit. • Attach the front panel carefully, holding the sides of the front panel to avoid pushing buttons by mistake. Preset buttons (1 through 6) Tuning to Preset Stations Use only compact discs with the label side showing the CD logo marks below. Listening to Radio 1 2 repeatedly until the desired radio AM FMI PRECAUTIONS Product Cleaning Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic. Adjusting Volume Turn the Rotary encoder until the desired sound is obtained. Adjusting Volume : 0 ~ 40 New Discs To prevent the CD from jamming, the LCD is displayed as error if discs with irregular surfaces are inserted*

or if discs are inserted incorrectly. When a new disc is ejected immediately after initial loading, use your finger to feel around the inside of the centre hole and outside edge of the disc.

*If you feel any small bumps or irregularities, this could inhibit proper loading of the disc.*



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To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again. Centre Hole Centre Hole New Disc 1 2 3 Press BAND/ is displayed. / repeatedly until the desired band Press SOURCE/ Press BAND/ / band is displayed.

FM1 FM2 FM3 to select RADIO mode.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING. Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE. Press any one of the station preset buttons (1 through 6) that has your desired radio station in memory.

The display shows the band, preset number and frequency of the station selected. Disc Cleaning Fingerprints, dust, or soil on the surface of the disc could cause the CD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the centre of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc. If you use unspecified compact discs, correct performance cannot be guaranteed. You can play CD-Rs (CD-Recordables)/CD-RWs (CDReWritable) which have been recorded only on audio devices. You can also play CD-Rs/CD-RWs containing MP3/WMA formatted audio files. • Some of the following CDs may not play on this unit: Flawed CDs, CDs with fingerprints, CDs exposed to extreme temperatures or sunlight (e.g., left in the car or this unit), CDs recorded under unstable conditions, CDs on which a recording failed or a re-recording was attempted, copy-protected CDs which do not conform to the audio CD industry standard.

• Use discs with MP3/WMA files written in a format compatible with this unit. For details, see "About MP3/WMA". • ROM data other than audio files contained in a disc will not produce sound when played back. Turning Power On and Off Press SOURCE/ to turn on the unit. for at least 2 seconds to • The first time power is turned on, the volume will start from level 18. Setting Time Press Press and hold station. or to tune in the desired station. for at least 0.5 seconds to seek Temperature Be sure the temperature inside the vehicle is between +55°C (+131°F) and -10°C (+14°F) before turning your unit on. 1 2 3 4 5 Press and hold VIEW for at least 2 seconds.

The hour indication will blink. MINIMIZE DISPLAY VIEWING WHILE DRIVING. Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident. ALPINE ELECTRONICS OF ASIA PACIFIC CO.,LTD.

555 Rasa Tower 1, Unit 2601-2602, 26th Floor, Phaholyothin Road, Chatuchak, Chatuchak, Bangkok 10900, Thailand Phone 02-937-0505 www.alpine-asia.com ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD. 161-165 Princes Highway, Hallam Victoria 3803, Australia Phone 03-8787-1200 ALPINE ITALIA S.

p.A. Viale C. Colombo 8, 20090 Trezzano Sul Naviglio (MI), Italy Phone 02-484781 Presetting Stations Manually Moisture Condensation You may notice the CD playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate. Bumps Outside (Bumps) Press and hold SOURCE/ turn off the unit. Press or to adjust the hours while the time indication is blinking. When the hour has been adjusted, press VIEW. The Minute indication will blink. 1 2 Select the radio band and tune in a desired radio station you wish to store in the preset memory.

Press and hold, for at least 2 seconds, any one of the preset buttons (1 through 6) into which you wish to store the station. The selected station is stored. The display shows the band, preset number and station frequency memorized. DO NOT DISASSEMBLE OR ALTER. Doing so may result in an accident, fire or electric shock. Disc Accessories There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause the disc to be out of standard specifications and may create operational problems. We recommend not using these accessories on discs played in Alpine CD players. Detaching and Attaching the Front Panel Detaching USE ONLY IN • To protect the front panel, place it in the supplied carrying case.

• When detaching the front panel, do not apply excessive force as it may result in malfunction. 1 2 3 4 Remote control sensor 5 CD/MP3/WMA SOURCE/ BAND/ / 3 Press or to select the desired track (file). Returning to the beginning of the current track (file): Press . Fast backward: Press and hold . M.I.X. (Random Play) Press 4(M.I.X.)

) in the play mode. The "M.I.X." indicator lights up, and the tracks (files) on the disc will be played back in random sequence. Press 4(M.I.X.) again to cancel. About MP3/WMA CAUTION Supported playback sampling rates and bit rates MP3 Sampling rates: Bit rates WMA Sampling rates: Bit rates: Order of files Files are played back in the order that the writing software writes them to the disc.

Therefore, the playback order may not be what is expected. Verify the writing order in the software's documentation. The playback order of the folders and files is as follows. Advancing to the beginning of the next track (file): Press . Fast forward: Press and hold . 4 4(M.I.X.) 6(RPT) To pause playback, press BAND/ Pressing BAND/ / again will resume playback. / .

Folder M.I.X. (Random Play) (MP3/ WMA) Press and hold 4(M.I.X.) for at least 2 seconds. The "FOLDER" and "M.I.X."

" indicators appear in the display, and all files in the current folder are played back in random sequence. Press and hold 4(M.I.X.) again to cancel. Except for private use, duplicating audio data (including MP3/WMA data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty. What is MP3? MP3, whose official name is "MPEG-1 Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC. MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality.

The MP3 format realises such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds. What is WMA? WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data and can achieve CD quality sound with small file sizes. Method for creating MP3/WMA files Audio data is compressed using software with MP3/WMA codecs.



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For details on creating MP3/WMA files, refer to the user's manual for that software. MP3/WMA files that are playable on this device have the file extensions "mp3"/ "wma" Files with no extension cannot be played back (WMA ver. 7-9 are supported). Protected files are not supported. 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.

05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz 8 - 320 kbps Sound Setting Rotary encoder (AUDIO) Equalizer Presets (Factory's EQ) 6 typical equalizer settings are preset at the factory for a variety of musical source material. Other Functions SOURCE/ Displaying Time Press VIEW repeatedly until the time is displayed. Each press changes the display. For details, see "Displaying the Text".

• Selecting any radio or CD function while in the clock priority mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display. 48 kHz, 44.1 kHz, 32 kHz 64 - 160 kbps Press SOUND repeatedly until the desired Factory's EQ type is displayed. With each press of the button, the equalizer mode will display the selected equalizer characteristic.

FLAT(OFF) FLAT(OFF) ROCK POP JAZZ VOCAL CLUB Root folder This device may not play back correctly depending on sampling rates. ID3 tags/WMA tags This device supports ID3 tag and WMA tag. If tag data is in an MP3/WMA file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data. This device can only display up to 64 characters. (Unicoded file and folder names are up to 32 characters.) For non-supported characters and symbols an asterisk is displayed. If information contains characters other than ID3 tag information, the audio file may not be played back. The tag information may not be correctly displayed, depending on the contents. Producing MP3/WMA discs MP3/WMA files are prepared, then written to a CD-R or CD-RW using CD-R writing software. A disc can hold up to 255 files/folders (including Root Folders), and the maximum number of folders is 255.

Playback may not be performed if a disc exceeds the limitations described above. Media supported The media that this device can play back are CD-ROMs, CD-Rs, and CD-RWs. Corresponding File Systems This device supports discs formatted with ISO9660 Level 1 or Level 2. Under the ISO9660 standard, there are some restrictions to remember. The maximum nested folder depth is 8 (including the root directory). The number of characters for a folder/file name is limited. @@@@ @@@@ Formats supported This device supports Multi-Session. @@@@ @@@@ Do not load more than one disc at a time. A malfunction may result from doing either. @@@@ • Three-inch (8 cm) CDs cannot be used.

@@@@ @@@@@@ by simply connecting it to the input on the front panel. @@@@@@ @@@@@@ @@@@@@ @@@@@@ \* 2 Displayed only when USB memory is connected. • Press VIEW to switch the display. See "Displaying the Text" for information about display switching. 2 While playing back MP3/WMA, press to select the desired folder.

or Repeat Play Press 6(RPT) to repeatedly play back the current track. The "RPT" indicator lights up, and the track (file) will be played repeatedly. Press 6(RPT) again to cancel. This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data. Encoding Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format. Tag \* 1 Displayed during playback of a disc with CD text. \* 2 ID3 tag/WMA tag If an MP3/WMA file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name). All other tag data is ignored. Folder Repeat Play (MP3/WMA) Press and hold 6(RPT) for at least 2 seconds. The "FOLDER" and "RPT" indicators appear in the display, and only files in the current folder are repeatedly played back.

Press and hold 6(RPT) again to cancel. Song information such as track titles, artist names, album names, etc., written into MP3/WMA files. Root folder About "Text" Text: Text compatible CDs contain text information such as the disc name and track name. Such text information is referred to as "text." The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all burned discs. • Some characters may not be displayed correctly with this device, depending on the character type. • "NO TEXT" is displayed if text information cannot be displayed on this unit.

• The text or tag information may not be correctly displayed, depending on the contents. 6 7 8 9 10 USB memory (Optional) SOURCE/ BAND/ / USB Memory Connection (Optional) Connect USB memory Information In Case of Difficulty If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

CD CD Player not functioning. • Out of operating temperature range +70°C (+158°F) for CD. - Allow the vehicle's interior (or trunk) temperature to cool. CD playback sound is wavering. • Moisture condensation in the CD Module.

- Allow enough time for the condensation to evaporate (about 1 hour). CD insertion not possible. • A CD is already in the CD player. - Eject the CD and remove it. • The CD is being improperly inserted. - Make sure the CD is being inserted following instructions in the CD Player Operation section. Unable to fast forward or backward the CD. • The CD has been damaged. - Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism. CD playback sound skips due to vibration.

• Improper mounting of the unit. - Securely re-mount the unit. • The disc is very dirty. - Clean the disc. • The disc has scratches. - Change the disc. • The pick-up lens is dirty. - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer. CD playback sound skips without vibration. • The disc is dirty or scratched. - Clean the disc; damaged disc should be replaced. Error displays (built-in CD player only). • Mechanical error. - Press . After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest Alpine dealer. CD-R/CD-RW playback not possible. • Close session (finalization) has not been performed. - Perform finalization and attempt playback again.

Indication for CD Player Indication for USB memory Specifications FM RADIO SECTION Tuning Range Usable Sensitivity Frequency Response Alternate Channel Selectivity Stereo Separation Image Rejection Ratio IF Rejection Ratio Signal-to-Noise Ratio AM RADIO SECTION Tuning Range Usable Sensitivity CD PLAYER SECTION 531-1,602 kHz / 530-1,710 kHz (CDE-110C/110E/110UB) / (CDE-110) 28 dB/μV (S/N 20 dB) 87.



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5-108.0 MHz / 87.7-107.9 MHz (CDE-110C/110E/110UB) / (CDE-110) 5 dB/μV (S/N 30 dB) 30-15,000 Hz (±3 dB) 75 dB 30 dB 70 dB 100 dB 62 dB  
GENERAL Power Requirement 12 V DC (11-16 V allowable), Test voltage 14.4 V, Negative ground Less than 2.1 A (CD mode; 0.5 W x 4) 50 W x 4 (at 1 kHz)  
volume control maximum 18 W x 4 (1kHz, 1 %, 4 ohms) 4-8 ohms 2 V (CD mode, 1 kHz, 0dB) 200 ohms 178 x 50 x 160 mm 1.2 kg Installation and  
Connections Before installing or connecting the unit, please read the following and "Operating Instructions" of this manual thoroughly for proper use.  
Installation Caution 2 Hex Nut (M5) \*2 Screw 1 2 Open the cover of the USB connection terminal.

Connect the USB memory directly to the USB connection terminal, or via the USB cable. This unit USB Connection Terminal USB memory (Sold Separately)  
• The disc is dirty or upside down. - Press the button and eject the CD. If not ejecting, consult your Alpine dealer. • No song (file) is stored in the USB  
memory. - Connect the USB memory device after storing songs (files). • A USB device that is not supported by the unit is connected. - Connect a USB device  
that is supported by the unit. Current Consumption Maximum Power Output Power Output Speaker Impedance Pre-Output Voltage\* Pre-Output Impedance\*  
Dimensions (W x H x D) Weight Caution Warning MAKE THE CORRECT CONNECTIONS. Failure to make the proper connections may result in fire or  
product damage.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS. The wiring and installation of this unit requires special technical skill and experience. To  
ensure safety, always contact the dealer where you purchased this product to have the work done. Do not block the unit's heat sink, thus preventing air  
circulation. If blocked, heat will accumulate inside the unit and may cause a fire.

Heat sink Metal Mounting Strap Bolt Stud (Included) or Basic No function or display. • Vehicle's ignition is off. - If connected following instructions, the unit  
will not operate with the vehicle's ignition off. • Improper power lead (Red) and battery lead (Yellow) connections. - Check power lead and battery lead  
connections.

• Blown fuse. - Check the fuse of the unit; replace with the proper value if necessary. • The disc has scratches. - Press the button and eject the CD. If not  
ejecting, consult your Alpine dealer. Controlling USB memory (Optional) A USB memory device may be connected to this unit. With USB memory connected,  
playback of files on the device is controlled from this unit. • The controls on this unit for USB memory operation are operative only when a USB memory is  
connected. USB memory (Sold Separately) Cable (Sold Separately) • Abnormal current is run to the USB connector device (an error message may be  
displayed if the USB device that is not compatible with the unit is connected). USB memory is a malfunction or it is shorted.

- Disconnect the USB memory device and turn off the power and turn on Connect another USB memory. USE ONLY IN CARS WITH A 12 VOLT NEGATIVE  
GROUND. (Check with your dealer if you are not sure.) Failure to do so may result in fire, etc. USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM  
SECURELY. Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install  
the unit in place. This may cause parts to become loose resulting in hazards or product failure. Ground Lead \*1 This unit Chassis • Mechanism error. -  
Consult your Alpine dealer.

• Communication error. - Turn the ignition key off, and then set to ON again. • A sampling rate/bit rate not supported by the unit is used. - Use a sampling  
rate/bit rate that is supported by the unit. • A sampling rate/bit rate not supported by the unit is used.

- Use a sampling rate/bit rate that is supported by the unit. • A copy-protected WMA file was played back. - You can only play back non-copy-protected files. •  
A copy-protected WMA file was played back. - You can only play back non-copy-protected files.

• Due to continuous product improvement, specifications and design are subject to change without notice. BEFORE WIRING, DISCONNECT THE CABLE  
FROM THE NEGATIVE BATTERY TERMINAL. Failure to do so may result in electric shock or injury due to electrical shorts. ARRANGE THE WIRING SO  
IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE. Route the cables and wiring away from moving parts (like the seat rails) or sharp or  
pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's  
insulation from being cut by the metal edge of the hole. Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the  
unit to a clean metal spot using a screw (\* 1) already attached to the vehicle's chassis. Detachable Front Panel Caution • For the screw marked "\*2", use an  
appropriate screw for the chosen mounting location.

Remove USB memory Note 1 2 \* CDE-110UB does not support WMA. Carefully, pull out the USB memory from the USB cable or the USB connection  
terminal. Close the cover of the USB connection terminal. Radio Unable to receive stations. • No antenna or open connection in cable. - Make sure the  
antenna is properly connected; replace the antenna or cable if necessary. Unable to tune stations in the seek mode. • If the area you are in is a primary signal  
area, the antenna may not be grounded and connected properly. - Check your antenna connections; make sure the antenna is properly grounded at its  
mounting location. • The antenna may not be the proper length.

- Make sure the antenna is fully extended; if broken, replace the antenna with a new one. Broadcast is noisy. • The antenna is not the proper length. - Extend  
the antenna fully; replace it if it is broken. • The antenna is poorly grounded.

- Make sure the antenna is grounded properly at its mounting location. Sampling Range DA Converter Pick-up Type Light Source Wave length Laser Power  
Frequency Response Signal-to-Noise Ratio Total Harmonic Distortion Wow & Flutter Channel Separation USB SECTION USB requirements Maximum  
Supply Compatibility Front AUX input Input Impedance Allowable external input Connector Playing MP3/WMA Files with the USB memory (Optional) If  
you connect a USB memory containing MP3/WMA, you can play these files on this unit. 1 Press SOURCE/mode. RADIO CD\* 1 to switch to the USB AUDIO  
The mode will change every time the button is pressed. USB \* 2 AUX RADIO • Change to a source other than the USB memory mode, then remove the USB  
memory.

If the USB memory is removed in the USB memory mode, data may be damaged. • When removing USB memory, pull it out straight. • If sound is not output or  
USB memory is not recognised even when USB memory is connected, remove USB memory once, then connect it again.



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• Route the USB cable away from other cables, etc. • After removing the USB memory, close the cover of the USB connection terminal to prevent dust or foreign objects from entering and causing a malfunction. 8 times oversampling 1 bit DAC System 3-beam Photo Detector Pick Up Semiconductor laser 790 nm CLASS I 20-20,000 Hz ( $\pm 1$  dB) 96 dB 0.01% (at 1 kHz) Below measurable limits 85 dB DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS. Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST. Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure. DO NOT SPLICE INTO ELECTRICAL CABLES. Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock. When you install this unit in your car, do not remove the detachable front panel. If the detachable front panel is removed during installation, you might press too hard and warp the metal plate that holds it in place. 3 Connect each input lead coming from an amplifier to the corresponding output lead coming from the left rear of the CDE-110/110C/110E/110UB. Connect all other leads of the CDE-110/110C/110E/110UB according to details described in the CONNECTIONS section. DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES. When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire. Precautions • Be sure to disconnect the cable from the (-) battery post before installing your CDE-110/110C/110E/110UB. This will reduce any chance of damage to the unit in case of a short-circuit.

• Be sure to connect the colour coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system. • When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the CDE-110/110C/110E/110UB to the fuse box, make sure the fuse for the intended circuit of the CDE-110/110C/110E/110UB has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer. • The CDE-110/110C/110E/110UB uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized Alpine dealer for assistance. • Be sure to connect the speaker (-) leads to the speaker (-) terminal.

Never connect left and right channel speaker cables to each other or to the vehicle body. SERIAL NUMBER: INSTALLATION DATE: INSTALLATION TECHNICIAN: PLACE OF PURCHASE: • The main unit must be mounted within 30 degrees of the horizontal plane, back to front. Slide the CDE-110/110C/110E/110UB into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the detachable front panel. Removal 1. Remove the detachable front panel. 2. @@The unit can now be removed from the mounting sleeve. @@@@Play back may not be performed if a USB memory exceeds the limitations described above.

Do not make a file's playback time more than 1,000 minutes. Media supported This device can play back USB memory media. Corresponding File Systems This device supports FAT 12/16/32 for USB memory device. 1.1/2.

0 Full Speed 500 mA DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS. Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc. 1 Bracket Mounting Sleeve (Included) Rubber Cap (Included) Bolt Stud (Included) Dashboard 3. Pull the unit out, keeping it unlocked as you do so.

again will resume the playback. • The root folder is displayed as "ROOT" in the Folder Name Search mode. • This unit plays back files on a USB memory device with the same controls and modes as playback of CDs containing MP3/WMA. For details, refer to "CD/MP3/WMA". • Before disconnecting USB memory, be sure to change to another source or set to pause. • The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back. 10 kohms 2.0 V 3.5 mm  $\phi$  Stereo mini-pin <JAPANESE CAR> MP3/WMA MP3, WMA is not played back. • Writing error occurred.

The MP3/WMA format is not compatible. - Make sure the MP3/WMA has been written in a supported format. Refer to "About MP3/WMA", then rewrite in the format supported by this device. KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN. Swallowing them may result in serious injury. If swallowed, consult a physician immediately. Snapping Point This unit Front Frame (Included) DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER. Doing so may obstruct forward vision or hamper movement etc. and results in serious accident. IMPORTANT Please record the serial number of your unit in the space provided below and keep it as a permanent record.

The serial number or the engraved serial number is located on the upper of the unit. Remove the mounting sleeve from the main unit (see "Removal"). This unit Ground Lead \*3 Screws (M5  $\times$  8) Mounting Bracket Secure the ground lead of the unit to a clean metal spot using a screw (\*3) already attached to the vehicle's chassis. 11 12 13 14 15 16 Connections Antenna Receptacle ANT CONT Lead (Blue) Connect this lead to the +B terminal of your power antenna, if applicable. • This lead should be used only for controlling the vehicle's power antenna.

Do not use this lead to turn on an amplifier etc. Left Rear (+) Speaker Output Lead (Green) Left Rear (-) Speaker Output Lead (Green/Black) Left Front (-) Speaker Output Lead (White/Black) Left Front (+) Speaker Output Lead (White) Fuse Holder (15A) Rear Output RCA Connectors RED is right and WHITE is left. Antenna AMP CONT Lead (Blue/White) Blue ANT CONT To power antenna Connect this lead to the remote turn-on lead of your amplifier or signal processor. RCA Extension Cable (sold separately) Front AUX Input Terminal This terminal allows for input of audio from an external device (such as a portable player), using a commercially available converter cable.



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Switched Power Lead (Ignition) (Red) Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+)12V only when the ignition is turned on or in the accessory position.

Blue/White AMP CONT To amplifier Red IGNITION USB Connection Terminal Connect USB memory (sold separately) Ignition Key Yellow BATTERY Battery Lead (Yellow) Connect this lead to the positive (+) post of the vehicle's battery. Ground Lead (Black) Black GND Battery Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided. Power Supply Connector Gray SPEAKER RIGHT FRONT Gray/Black Violet/Black SPEAKER RIGHT REAR Violet Green SPEAKER LEFT REAR Green/Black White/Black SPEAKER LEFT FRONT White Speakers Front Right Right Front (+) Speaker Output Lead (Gray) Right Front (-) Speaker Output Lead (Gray/Black) Right Rear (-) Speaker Output Lead (Violet/Black) Right Rear (+) Speaker Output Lead (Violet) Rear Right Rear Left Front Left Speakers Rear Left Amplifier Rear Right To prevent external noise from entering the audio system. • Locate the unit and route the leads at least 10 cm away from the car harness. • Keep the battery power leads as far away from other leads as possible. • Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis. • If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information. • Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

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